

PI 560141 to 560147-continued

PI 560147 **origin:** United States. **developed:** J.F. Miller. **origin institute:** Agricultural Research Service -- USDA, Northern Crops Science Lab, Fargo, North Dakota 58105 United States. **cultivar:** NMS 801. **pedigree:** BC5F4-derived sib-mated population between green, nuclear male-sterile plants and anthocyanin-pigmented, fertile plants. **other id:** GP-175. **source:** Crop Sci. 32(5):1298 1992. **group:** CSR-SUNFLOWER. **restricted:** CSR. **remarks:** Provides nuclear male-sterility sources for crossing and testcrossing. Available for use in sunflower breeding & hybrid development programs. Seeds produce approx. 50% green, sterile plants (tt,msms) & 50% anthocyanin-pigmented, fertile plants (Tt,MSms). Male sterility maintained by crossing green sterile plants with anthocyanin-pigmented, fertile plants. Anthocyanin pigment detected in hypocotyl tissue when in V4 plant stage or in later stages in leaf venation. Anthers & stigmas also pigmented at anthesis. Small amount of pollen may be found on male-sterile plants. Breeding Material. Seed.

PI 560148. *Calendula suffruticosa* M. Vahl ASTERACEAE

Donated by: Botanical Garden, University of Turku, Turku, Finland. Received March 16, 1991.

origin: Finland. **origin institute:** Botanical Garden, University of Turku, Turku SF-20500 Finland. **other id:** Ames 13150. **source:** NC-7. **group:** Ames. Wild. Seed.

PI 560149. *Chrysanthemum coronarium* L. ASTERACEAE

Donated by: Widrlechner, M.P., NCRPIS, Ames, Iowa 50011, United States. Received March 23, 1991.

origin: United States. **collected:** March 21, 1989. **collector:** Mark P. Widrlechner, NCRPIS. **other id:** Ames 10223. **source:** NC-7. **group:** Ames. **locality:** Collected at the South Bay Biological Study Area, Coronado, San Diego Co., California along bike path on east side of Highway 75. **remarks:** Wild plants with weeds including Avena. Wild. Seed.

PI 560150. *Euonymus hamiltonianus* Wallich CELASTRACEAE

Donated by: Holden Arboretum, Mentor, Ohio, United States. Received March 01, 1991.